

Work Order ID 97746

97746

Page 1

February-21-13 12:42:31 PM

Item ID: D4151-3

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Upper Hardpoint Plate

Start Date: 2/26/13 Start Qty: 12.00

12

Cust Item ID:

Required Date: 2/26/13 Req'd Qty: 12.00

12

Customer:

Reference:

Approvals: Process Plan: MLJ Date: 13-02-21 Tooling:

Date:

Run Start ***NR1***

QC: Date: SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4151	C								
100		0.00							
100									
Waterjet	Memo	0.00							
FLOW CNC Waterjet	Cut as per dwg D4151								
304 .125	Prog Rev: <u>C</u>								
	Dwg Rev: <u>C</u>								
	Deburr as required								
110	QC2- Inspect parts off machine FAI/FAIB	0.00							
110									
QC	Memo	0.00							
Quality Control									

17 0 Jm13-3-2

17 0 Jm13-3-2

Picklist Print

February-21-13 12:42:31 PM

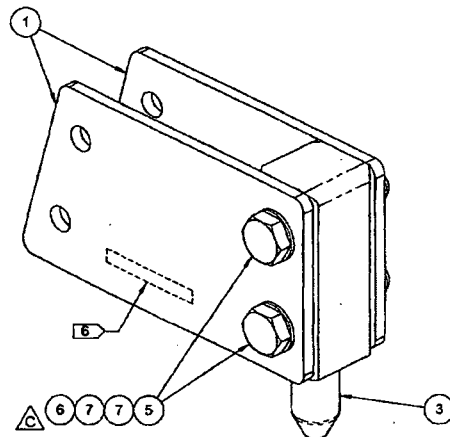
Page 1

Work Order ID: 97746
 Parent Item: D4151-3
 Parent Item Name: Upper Hardpoint Plate

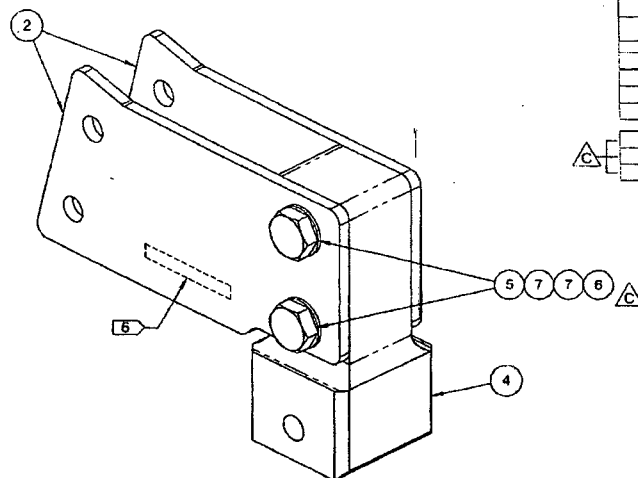
Start Date: 2/26/13 Required Date: 2/26/13
 Start Qty: 12.00 Required Qty: 12.00

Comments: IPP Rev:A 10.06.24 new issue DD verf:EC
 IPP Rev:B 11.01.21 as per dwg revC DD verf:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S11GA 304/316 0.125 Sheet		Purchased	No			100	sf	266.5500	0.055	0.6947364	0.7		Im 13-3-2
				<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>						
				MAT020		266.55							
				122521		74.55							
				24445		192							
										122521			



D4151-041 BASKET FWD HARDPOINT ASSY (LOWER)



D4151-043 BASKET FWD HARDPOINT ASSY (UPPER)

ITEM	QTY -041	QTY -043	P/N	DESCRIPTION
	X		D4151-041	BASKET FWD HARDPOINT ASSY (LOWER)
		X	D4151-043	BASKET FWD HARDPOINT ASSY (UPPER)
1	2		D4151-1	LOWER HARDPOINT PLATE
2		2	D4151-3	UPPER HARDPOINT PLATE
3	1		D4151-5	FWD BASKET INSTL STUD (LOWER)
4		1	D4151-7	FWD EYEBOLT RECEIVER (UPPER)
5	2	2	AN4C13A	BOLT
6	2	2	MS21043-4	NUT
7	4	4	NAS1149C0432R	WASHER

UNCLASSIFIED COPY
 97746 MLS
 13-02-21 RELEASED
 2011-01-08

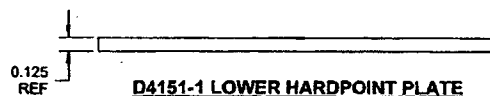
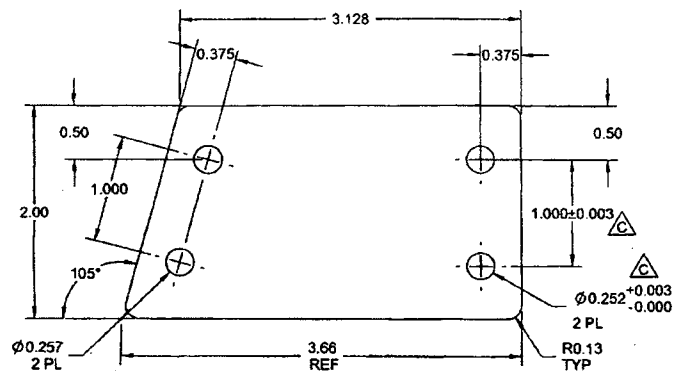
- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4151-04X" USING FINE POINT PERMANENT INK MARKER
 - 7) WEIGHT:
 - D4151-041 = 0.88 lbs
 - D4151-043 = 1.17 lbs

C	AM4 HARDWARE WAS AN3 (B6-1, C3-1 & D3-1); Ø0.252 WAS Ø0.191 (C5-2, D1-2); TIGHTENED TOL ON 1.000 DIM (C5-2, D1-2, C7-3, C3-3); Ø0.250 WAS Ø0.191 (C8-3, B4-3); 1.43 WAS 1.75 (C1-2); 2.84 WAS 2.78 (B3-3) AND 1.88 WAS 1.80 (C1-3) TO PRESERVE 1.500. REASON: SEE D407-787 DESIGN JOURNAL.	MB	10.12.14
B	ADDED D4151-5/-7 (SHT 3); D4151-5 WAS D3811-1 (ZN B6-1 & D3-1); D4151-7 WAS D3811-3 (ZN C4-1 & D3-1) ITEMS AS 6 & 7 REPLACE MS20815-AM20 (ZN C3-1, D3-1 & B6-1); Ø0.191 2 PL REPLACES Ø0.129 3 PL (ZN C5-2); Ø0.191 2 PL REPLACES Ø0.129 4 PL (ZN D1-2). REASON: SEE TR-DSS0-007-2 REV. 8.	MB	10.07.05
A	NEW ISSUE	MB	10.08.22
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED	SC		
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.12.14		

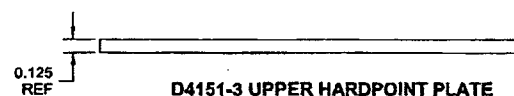
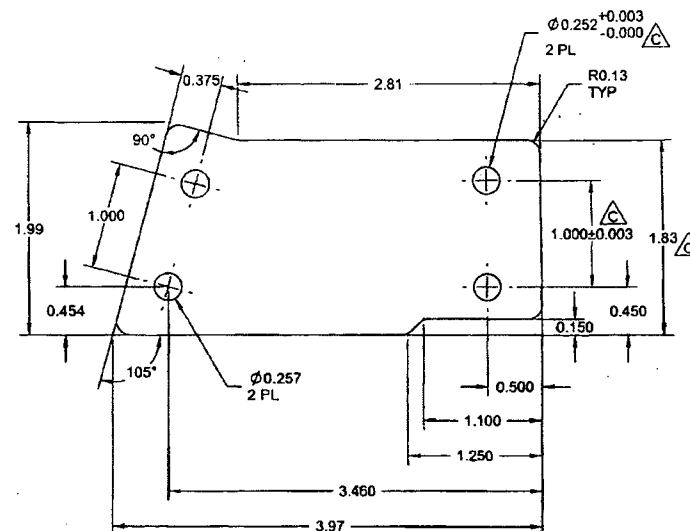
DART AEROSPACE LTD
 HAWKESBURY, ONTARIO, CANADA

DRAWING NO.
D4151
 REV. C
 SHEET 1 OF 3
 TITLE
BASKET FWD HARDPOINT
 SCALE
 NTS

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D4151-1 LOWER HARDPOINT PLATE



D4151-3 UPPER HARDPOINT PLATE

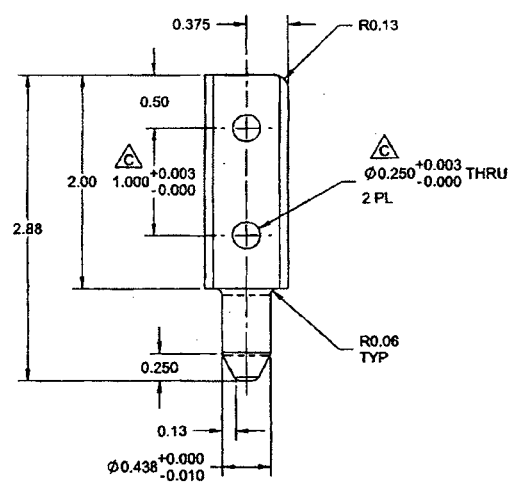
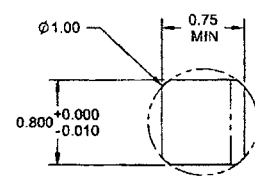
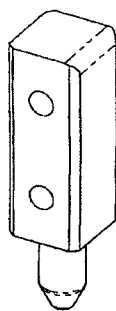
NOTES:

- 1) MATERIAL: 303/304/316 STAINLESS STEEL SHEET ANNEALED 2B, 0.125 THK
PER MIL-S-5059 OR AMS 5513/5524 OR ASTM A240 OR ASME SA240
REF. DART SPEC. M304S11GA OR M303S11GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY AT ASSEMBLY
- 7) WEIGHT:
- D4151-1 = 0.24 lbs
- D4151-3 = 0.23 lbs

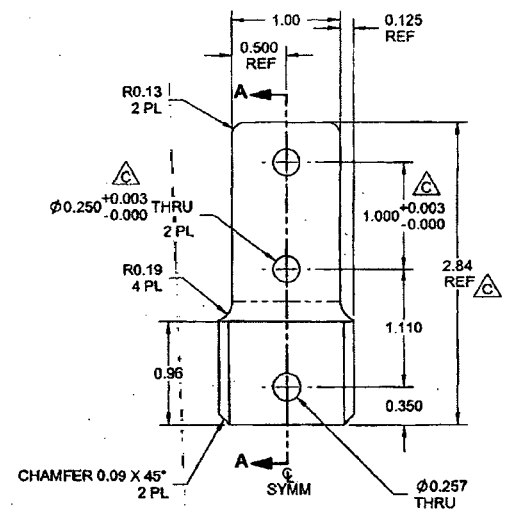
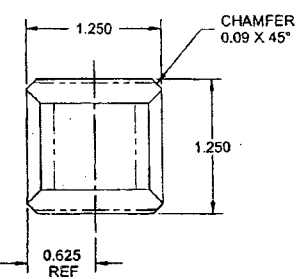
DESIGN		DART AEROSPACE LTD
DRAWN		HAWKESBURY, ONTARIO, CANADA
CHECKED		DRAWING NO. D4151
MFG. APPR.		REV. C
APPROVED		SHEET 2 OF 3
DE APPR.		SCALE
DATE	10.12.14	BASKET FWD HARDPOINT
		NTS

RELEASED
2011-01-08
JMD

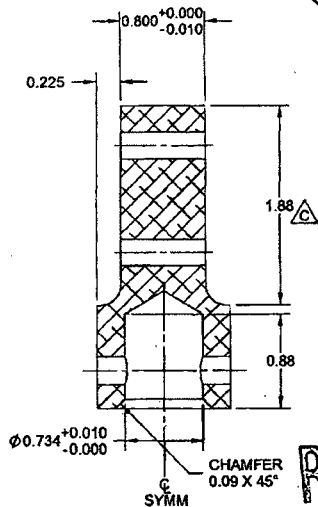
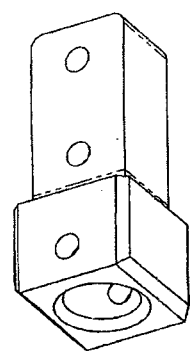
746



D4151-5 FWD BASKET INSTL STUD (LOWER)



D4151-7 FWD EYEBOLT RECEIVER (UPPER)



SECTION A-A

- NOTES:**
- 1) MATERIAL -5: 303/304/316 STAINLESS STEEL ROUND BAR, PER ASTM A276 OR ASTM A582
PER DART SPEC M303R OR M304R
 - 7: 303/304/316 STAINLESS STEEL BAR, PER ASTM A276 OR ASTM A582
PER DART SPEC M303B OR M304B
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY AT ASSEMBLY
 - 7) WEIGHT -5: 0.36 lbs
-7: 0.70 lbs

DESIGN	J	DART AEROSPACE LTD	
DRAWN	J	HAWKESBURY, ONTARIO, CANADA	
CHECKED	SC	DRAWING NO. D4151	REV. C
MFG. APPR.			SHEET 3 OF 3
APPROVED		TITLE BASKET FWD HARDPOINT	SCALE
DE APPR.			NTS
DATE	10.12.14	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR REPRODUCED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.	

RELEASED
2011-07-30
RELEASED

Receiving Report

Date: 12/7/26
 Supplier: THY 586h

Batch No: M12251
 Dart P/O: 17463

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☐ No ☒ N/A ☐
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC6 Inspection: 14 12/07/27 N/A ☒
 Work Order: 0-83 N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
M30430-020 V.0000		24	0	0	24	
M20430-0620 X300		12	0	0	12	
M6061765032		96	0	0	96	
M707513320003		256	0	0	6	

Initials of receiver (if shipment OK) Level 12 le

Production/Admin: 12/1/26
 Date
 Received/Costing
 Initial

Location _____

Purchase Order Receipt Listing

Thursday, July 26, 2012 8:56:04 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO17463 Receipt Dates from 7/26/2012 to 7/26/2012 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID/Vendor Name		VC-COP001	Thyssenkrupp Materials CA Ltd								
PO17463	3		M303B1.000X1.000 f		7/25/2012	7/26/2012	12.7000	\$13.49	0.0000	0	\$171.36
CAD	No		303 BAR 1" X 1" f		12.0000	DESJ02		\$171.36	0.0000	0	
			122521								
	6		M304S11GA sf		7/23/2012	7/26/2012	280.0000	\$8.85	0.0000	0	\$2,478.17
	No		304/316 0.125 Sheet sf		280.0000	DESJ02		\$2,478.17	0.0000	0	
			122521								
	7		M6061T6B0.500X01. f		7/23/2012	7/26/2012	24.0000	\$1.55	0.0000	0	\$37.09
	No		250		24.0000	DESJ02		\$37.09	0.0000	0	
			6061-T6 Bar .500 x f								
			1.25								
			122521								
	8		M6061T6B0.500X06. f		7/23/2012	7/26/2012	24.0000	\$7.03	0.0000	0	\$168.78
	No		000		24.0000	DESJ02		\$168.78	0.0000	0	
			6061-T6 Bar .500 x f								
			6.00								
			122521								
	9		M6061T6B0.750X01. f		7/23/2012	7/26/2012	24.0000	\$2.62	0.0000	0	\$62.80
	No		500		24.0000	DESJ02		\$62.80	0.0000	0	
			6061-T6 Bar .750 X f								
			1.50								
			122521								
	10		M6061T6B1.000X04. f		7/23/2012	7/26/2012	24.0000	\$9.24	0.0000	0	\$221.77
	No		000		24.0000	DESJ02		\$221.77	0.0000	0	
			6061-T6 Bar 1.00 x f								
			4.00								
			122521								
	11		M6061T6B1.250X01. f		7/23/2012	7/26/2012	12.0000	\$3.60	0.0000	0	\$43.18
	No		250		12.0000	DESJ02		\$43.18	0.0000	0	
			6061-T6 Bar 1.25 x f								
			1.25								
			122521								

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Part Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID/Vendor Name		VC-COP001	Thyssenkrupp Materials CA Ltd								
PO17463	12		M6061T6B1.500X02. f		7/23/2012	7/26/2012	12.0000	\$6.87	0.0000	0	\$82.43
			000								
CAD	No		6061-T6 Bar 1.50 x f		12.0000	DESJ02		\$82.43	0.0000	0	
			2.00								
			122521								
	13		M6061T6B2.000X02. f		7/23/2012	7/26/2012	12.0000	\$11.61	0.0000	0	\$139.34
			250								
	No		6061-T6 Bar 2.00 x f		12.0000	DESJ02		\$139.34	0.0000	0	
			2.25								
			122521								
	14		M6061T6R1.000 f		7/23/2012	7/26/2012	24.0000	\$1.80	0.0000	0	\$43.18
	No		ROUND BAR 1.00" f		24.0000	DESJ02		\$43.18	0.0000	0	
			122521								
	15		M6061T6R3.500 f		7/23/2012	7/26/2012	12.0000	\$23.06	0.0000	0	\$276.73
	No		6061 RD bar 3.50 f		12.0000	DESJ02		\$276.73	0.0000	0	
			122521								
	17		M6061T6S.080 sf		7/23/2012	7/26/2012	96.0000	\$3.05	0.0000	0	\$292.43
	No		6061-T6 .080 Sheet sf		96.0000	DESJ02		\$292.43	0.0000	0	
			122521								
	18		M6061T6S.125 sf		7/23/2012	7/26/2012	64.0000	\$4.75	0.0000	0	\$304.20
	No		6061-T6 .125 Sheet sf		64.0000	DESJ02		\$304.20	0.0000	0	
			122521								
Total Received Quantity:											620.7000
Total Qty to Inspect (PO U/M):											0.0000
Total Reject Quantity:											0.0000
Total Receipt Value:											\$4,321.47
Total Balance Due Quantity:											0.0000

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

No: PEC 777693
Ship Date 23Jul12 at 10:57 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

B I L L O F L A D I N G

=====

B I L L O F L A D I N G

1) Our Order PEC-472083- 1 Your PO # 17463
STAINLESS STEEL SQ BAR 303 STAINLESS
1.00" X 151.0000"

Heat Number 245298
Tag No 88401

Quantity 12 ' 7.0000 " PCS 1 MTR Wt LBS 43

2) Our Order PEC-472083- 2 Your PO # 17463
STAINLESS STEEL SHEET 304-2B
.1200 Nom X 48.0000" X 120.0000"

Heat Number SF29688
Tag No 88728

Quantity 280.00 SFT PCS 7 MTR Wt LBS 1347

3) Our Order PEC-472083- 3 Your PO # 17463
ALUMINUM FLAT BAR 6061-T6511
.50" x 1.250" X 144.0000"

Heat Number Z00248009
Tag No 88402

Quantity 24 FT PCS 2 MTR Wt LBS 17

4) Our Order PEC-472083- 4 Your PO # 17463
ALUMINUM FLAT BAR 6061-T6511
.50" X 6.00" X 144.0000"

Heat Number 201210006
Tag No 88403

Quantity 24 FT PCS 2 MTR Wt LBS 84

5) Our Order PEC-472083- 5 Your PO # 17463
ALUMINUM FLAT BAR 6061-T6511
.750" X 1.50" X 144.0000"

Heat Number HK079 712
Tag No 88404

Quantity 24 FT PCS 2 MTR Wt LBS 32

Page: 1Continued

2 10/27/26

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ETRE
RAPPORTEES IMMEDIATEMENT
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

25 JUL 2012

RECU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033

Ship To: (1)
DART AEROSPACE

No: PEC 777693
Ship Date 23Jul12 at 10:57 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

B I L L O F L A D I N G

B I L L O F L A D I N G

6) Our Order PEC-472083- 6 Your PO # 17463
ALUMINUM FLAT BAR 6061-T6511
1.00" x 4.00" X 144.0000"
Heat Number 201210303 Tag No 88405

Quantity 24 FT PCS 2 MTR Wt LBS 114

7) Our Order PEC-472083- 7 Your PO # 17463
ALUMINUM SQUARE BAR 6061-T6511
1.250" X 144.0000"
Heat Number Z00240017 Tag No 88406

Quantity 12 FT PCS 1 MTR Wt LBS 23

8) Our Order PEC-472083- 8 Your PO # 17463
ALUMINUM FLAT BAR 6061-T6511
1.50" x 2.00" X 144.0000"
Heat Number 201209117 Tag No 88407

Quantity 12 FT PCS 1 MTR Wt LBS 43

9) Our Order PEC-472083- 9 Your PO # 17463
Part # OFFERING***** Rel #
ALUMINUM FLAT BAR 6061-T6511
2.00" x 2.50" X 144.0000"
Heat Number C7331164 Tag No 88408

Quantity 12 FT PCS 1 MTR Wt LBS 71

10) Our Order PEC-472083- 10 Your PO # 17463
ALUMINUM ROUND BAR 6061-T6511
1.00" DIA X 144.0000"
Heat Number Z00216020 Tag No 88409

Quantity 24 FT PCS 2 MTR Wt LBS 23

11) Our Order PEC-472083- 11 Your PO # 17463
ALUMINUM ROUND BAR 6061-T6511
3.50" DIA X 144.0000"

12/12/12 MTR

Page: 2Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ETRE
RAPPORTEES IMMEDIATEMENT
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
ET/OU DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

25 JUL. 2012

RECU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

SHIP FROM:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033

SHIP TO: (1)
DART AEROSPACE

B I L L O F L A D I N G
No: PEC 777693
Ship Date 23Jul12 at 10:57 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

B I L L O F L A D I N G
Heat Number Tag No Quantity PCS Wt LBS
21112151 88410 12 FT 1 140

12) Our Order PEC-472083- 12 Your PO # 17463
ALUMINUM SHEET 6061 T6
.0810 Nom X 48.0000" X 144.0000"

Heat Number Tag No Quantity PCS Wt LBS
25872/01/00 88035 96.00 SFT 2 105

MTR

13) Our Order PEC-472083- 13 Your PO # 17463
ALUMINUM SHEET 6061 T6
.1250 Nom X 48.0000" X 96.0000"

Heat Number Tag No Quantity PCS Wt LBS
30286/01/00 88036 64.00 SFT -2 109

MTR

14) Our Order PEC-472083- 14 Your PO # 17463
Part # PLATE ASTM B 209 QQ-A-250/12 Rel #
ALUMINUM PLATE 7075T7351
2.50" THICK X 3.2500" X 72.0000"
*** BACK ORDER ***

TOTAL: Tags 13 PCS 26 LBS 2151

Heat Number
201209117
201210006
201210303
21112151
245298
25872/01/00
30286/01/00
HK079 712
SF29688
Z00216020

*** Chemical Analysis ***

Page: 3Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

TOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

25 JUL 2012

DATE

SHIP FROM:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033

SHIP TO: (1)
DART AEROSPACE

NO: PEC 777693
SHIP DATE 23Jul12 at 10:57 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

B I L L O F L A D I N G

Z00240017
Z00248009

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL 1 BDL, 2 SKIDS GW. 2477 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

WE STOCK STAINLESS STEEL *

PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

Page: 4 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
ET/OU DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

25 JUL 2012

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL SHEET 304-2B
1200 Nom X 48.0000" X 120.0000"
PART NO.

PO/Rel 17463

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by: _____

Certificate of Mill Test Results

BL PEC-777693-002

23Jul12
Pg 1/1

12/07/27
DAS
14
2-83

产品质量证明书 MILL TEST CERTIFICATE

DMSSC 江苏大明金属制品有限公司
JIANGSU DAMING METAL PRODUCTS CO., LTD.
地址: 江苏省无锡市
ADDRESS: NO. 1114 TONGJIANG ROAD WUXI ROAD
JIANGSU PROVINCE, CHINA
TEL: 510-8828887

订单号: 02998
Order No. _____
订购商: GLOBAL STAINLESS STEEL INC.
Order _____
收货厂家: _____
CONSIGNEE _____

品名: COLD ROLLED STAINLESS
Commodity: STEEL SHEET, BLT EDGE

编号: M120302001
INVOICE NO. _____
发行日期: 2012-4-15
Date _____

序号 No.	Product No.	序号 Type	表面加工 Surface Finished	产品尺寸 Product Size			重量 NET Weight KG	标准 Specification	拉伸试验 Tensile Test			硬度 Hardness HV0.05/HRB	钢号 STEEL NO.	炉号 HEAT NO.	化学成分 Chemical Composition (%)							
				厚度 Thickness MM	宽度 Width MM	长度 Length MM			屈服强度 R _e L20 Mpa	抗拉强度 R _m Mpa	延伸率 A ₅ %				C	SI	Mn	P	S	NI	Cr	N
1	P001693090	304	2B	0.5	1219	2438	910.94	ASTM A240	275	731	65	157	QW40130C	SF28811	0.0510	0.5040	1.0820	0.0321	0.0057	8.02	18.26	1
2	P001693081	304	2B	0.5	1219	3048	908.08	ASTM A240	275	731	65	157	QW40130C	SF28811	0.0510	0.5060	1.0820	0.0321	0.0067	8.02	18.26	1
3	P001715073	304	2B	0.5	1219	3048	939.00	ASTM A240	270	731	60	157	QW63401B	SF28408	0.0458	0.5120	1.0540	0.0208	0.0064	8.02	18.32	1
4	P001682219	304	2B	1.5	1219	2438	1815.74	ASTM A240	275	692	62	163	QW62070B	SF30003	0.0378	0.4400	1.0270	0.0186	0.0022	8.05	18.17	1
5	P001683220	304	2B	1.5	1219	3048	1631.40	ASTM A240	275	692	62	163	QW62070B	SF30003	0.0378	0.4480	1.0270	0.0186	0.0022	8.05	18.17	1
6	P001683221	304	2B	1.5	1219	3048	916.74	ASTM A240	275	692	62	163	QW62070B	SF30003	0.0378	0.4480	1.0270	0.0186	0.0022	8.05	18.17	1
7	P001720553	304	2B	2.0	1219	3048	830.66	ASTM A240	293	706	58	173	QW20993A	SF28445	0.0428	0.1720	1.0360	0.0450	0.0251	8.06	18.17	1
8	P001894263	304	2B	3.0	1219	2438	1409.00	ASTM A240	281	663	61	175	QUB0403A	SF28888	0.0504	0.4510	1.1420	0.0343	0.0034	8.05	18.34	1
9	P001894295	304	2B	3.0	1219	3048	1467.64	ASTM A240	281	663	61	175	QUB0403A	SF28888	0.0504	0.4610	1.1420	0.0343	0.0034	8.05	18.34	1
10	P001705088	304	2B	2.0	1219	2438	1408.38	ASTM A240	287	714	55	174	QUC0023A	SF30003	0.0378	0.4480	1.0270	0.0186	0.0022	8.05	18.17	1
11	P001705121	304	2B	2.5	1219	3048	1363.94	ASTM A240	287	714	55	174	QUC0023A	SF30003	0.0378	0.4480	1.0270	0.0186	0.0022	8.05	18.17	1
12	P001699782	304	NO 4+	1.5	1219	2438	1880.48	ASTM A240	287	664	60	164	QWCB101B	SF30027	0.0476	0.5270	1.0650	0.0300	0.0040	8.04	18.22	1
13	P001693769	304	NO 4+	1.5	1219	3048	1976.55	ASTM A240	287	664	60	164	QWCB101B	SF30027	0.0476	0.5270	1.0650	0.0300	0.0040	8.04	18.22	1
14	P001595755	304	NO 4+	2.0	1219	2438	1983.80	ASTM A240	315	647	53	83	KA11234070A10	C310695	0.0403	0.4500	1.0900	0.0300	0.0010	8.1	18.21	0.046
15	P001703038	304	NO 4+	2.5	1219	2438	1670.30	ASTM A240	287	714	55	174	QUC0023A	SF30003	0.0378	0.4480	1.0270	0.0186	0.0022	8.05	18.17	1
16	P001703037	304	NO 4+	2.5	1219	2438	1670.30	ASTM A240	287	714	55	174	QUC0023A	SF30003	0.0378	0.4480	1.0270	0.0186	0.0022	8.05	18.17	1

尺寸公差: 合格
Size and Surface: Guaranteed

该证明所列产品均符合订单和标准的制造要求

WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE IN ACCORDANCE
WITH THE ORDER AND SPECIFICATION
此证明所列产品均符合订单和标准的制造要求

江苏大明金属制品有限公司
JIANGSU DAMING METAL PRODUCTS CO., LTD.



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO17463**

Purchase Order Date 7/17/12

PO Print Date 7/17/12

Page Number 1 of 6

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

905 669 9444

905 738 9033

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

REVISED

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
3	M303B1.000X1.000 <i>050</i>	303 BAR 1" X 1"	7/25/12 Yes	12.00 f <i>12.1</i>	Yours ppd	\$13.7500	\$165.00
		Special Inst: MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE					
4	M304B0.500X2.500 <i>050</i>	304 BAR .500 x 2.5"	7/25/12 Yes	24.00 f	Yours ppd	\$12.9083	\$309.80
		Special Inst: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 (NOTE: AISI 303 NOT ACCEPTABLE)					
5	M304B0.625X3.000 <i>050</i>	304 BAR .625 X 3.00	7/25/12 Yes	12.00 f	Yours ppd	\$20.2500	\$243.00

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required - YES NO

Change Nbr: 2

Change Date: 7/17/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO17463

Purchase Order Date 7/17/12

PO Print Date 7/17/12

Page Number 2 of 6

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

905 669 9444

905 738 9033

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

Destination-Collect

Special Inst: AISI 304/316 SS BAR OR AISI 304/316 SS
PLATE
AS PER ASTM A276 OR ASTM A240
(NOTE: AISI 303 NOT ACCEPTABLE)

6	M304S11GA 030	304/316 0.125 Sheet	7/23/12 Yes	✓ 280.00 sf	Yours ppd	\$9.0193	\$2,525.40
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Special Inst: MATERIAL: AISI 304/316 SS SHEET
ANNEALED 2B FINISH
AS MIL-S-5059 OR AMS 5513 (304) OR
AMS 5524 (316)
OR ASTM A240 OR ASME SA240

7	M6061T6B0.500X01.250 010	6061-T6 Bar .500 x 1.25	7/23/12 Yes	✓ 24.00 f	Yours ppd	\$1.5750	\$37.80
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Special Inst: MATERIAL: 6061-
T6/T651/T6510/T6511/T62 ALUMINUM
BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR
AMS 4160 OR ASTM B211 OR
ASTM B221

8	M6061T6B0.500X06.000 004	6061-T6 Bar .500 x 6.00	7/23/12 Yes	✓ 24.00 f	Yours ppd	\$7.1667	\$172.00
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No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required **YES** NO

Change Nbr: 2

Change Date: 7/17/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO17463

Purchase Order Date 7/17/12

PO Print Date 7/17/12

Page Number 3 of 6

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

905 669 9444

905 738 9033

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

Destination-Collect

Special Inst:

MATERIAL: 6061-
T6/T651/T6510/T6511/T62 ALUMINUM
BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR
AMS 4160 OR ASTM B211 OR
ASTM B221

9

M6061T6B0.750X01.500

6061-T6 Bar .750 X 1.50

7/23/12

Yes

✓ 24.00

f Yours ppd

\$2.6667

\$64.00

003

6/12/12/12

Special Inst:

MATERIAL: 6061-
T6/T651/T6510/T6511/T62 ALUMINUM
BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR
AMS 4160 OR ASTM B211 OR
ASTM B221

10

M6061T6B1.000X04.000

6061-T6 Bar 1.00 x 4.00

7/23/12

Yes

✓ 24.00

f Yours ppd

\$9.4167

\$226.00

004

6/12/12/12

Special Inst:

MATERIAL: 6061-
T6/T651/T6510/T6511/T62 ALUMINUM
BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR
AMS 4160 OR ASTM B211 OR
ASTM B221

11

M6061T6B1.250X01.250

6061-T6 Bar 1.25 x 1.25

7/23/12

Yes

✓ 12.00

f Yours ppd

\$3.6667

\$44.00

003

6/12/12/12

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required YES NO

Change Nbr: 2

Change Date: 7/17/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO17463

Purchase Order Date 7/17/12

PO Print Date 7/17/12

Page Number 4 of 6

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

905 669 9444

905 738 9033

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

Destination-Collect

Special Inst:

MATERIAL: 6061-
T6/T651/T6510/T6511/T62 ALUMINUM
BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR
AMS 4160 OR ASTM B211 OR
ASTM B221

12	M6061T6B1.500X02.000	6061-T6 Bar 1.50 x 2.00	7/23/12 Yes	12.00 f	Yours ppd	\$7.0000	\$84.00
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o10

Special Inst:

MATERIAL: 6061-
T6/T651/T6510/T6511/T62 ALUMINUM
BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR
AMS 4160 OR ASTM B211 OR
ASTM B221

13	M6061T6B2.000X02.250	6061-T6 Bar 2.00 x 2.25	7/23/12 Yes	12.00 f	Yours ppd	\$11.8333	\$142.00
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o09

Special Inst:

MATERIAL: 6061-
T6/T651/T6510/T6511/T62 ALUMINUM
BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR
AMS 4160 OR ASTM B211 OR
ASTM B221

14	M6061T6R1.000	ROUND BAR 1.00"	7/23/12 Yes	24.00 f	Yours ppd	\$1.8333	\$44.00
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d3

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required - YES NO

Change Nbr: 2

Change Date: 7/17/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO17463

Purchase Order Date 7/17/12

PO Print Date 7/17/12

Page Number 5 of 6

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone 905 669 9444

Vendor Fax 905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Special Inst:

MATERIAL: 6061-
T6/T651/T6510/T6511/T62 ALUMINUM
ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR AMS 4117/4128/
4115/4116 OR QQ-A-200/8 OR AMS-QQ-
A-200/8 OR AMS 4160
OR ASTM B211 OR ASTM B221

15	M6061T6R3.500 006	6061 RD bar 3.50	7/23/12 Yes	12.00 f	Yours ppd	\$23.5000	\$282.00
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Special Inst:

MATERIAL: 6061-
T6/T651/T6510/T6511/T62 ALUMINUM
ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR AMS 4117/4128/
4115/4116 OR QQ-A-200/8 OR AMS-QQ-
A-200/8 OR AMS 4160
OR ASTM B211 OR ASTM B221

16	M6061T6S.032 021	6061-T6 Sheet 0.032"	7/23/12 Yes	96.00 sf	Yours ppd	\$1.9792	\$190.00
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Special Inst:

MATERIAL: 6061-T6/T62 ALUMINUM
SHEET
AS PER QQ-A-250/11 OR AMS-QQ-A-
250/11 OR
AMS 4025 OR AMS 4027 OR ASTM B209

17	M6061T6S.080 621	6061-T6 .080 Sheet	7/23/12 Yes	96.00 sf	Yours ppd	\$3.1042	\$298.00
----	---------------------	--------------------	----------------	-------------	-----------	----------	----------

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required - YES NO

Change Nbr: 2

Change Date: 7/17/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO17463**

Purchase Order Date 7/17/12

PO Print Date 7/17/12

Page Number 6 of 6

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Special Inst: MATERIAL: 6061-T6/T62 ALUMINUM
SHEET
AS PER QQ-A-250/11 OR AMS-QQ-A-
250/11 OR
AMS 4025 OR AMS 4027 OR ASTM B209

18	M6061T6S.125	6061-T6 .125 Sheet	7/23/12	64.00	Yours ppd	\$4.8438	\$310.00
			Yes	\$f			

021

6/12/12/26

Special Inst: MATERIAL: 6061-T6/T62 ALUMINUM
SHEET
AS PER QQ-A-250/11 OR AMS-QQ-A-
250/11 OR
AMS 4025 OR AMS 4027 OR ASTM B209

19	M7075T73B2.500X03.25	7075-T73 Bar 2.50 x 3.25	7/23/12	6.00	Yours ppd	\$49.6667	\$298.00
			Yes	f			

008

Special Inst: 7075-T73 (OR 7075-
T7351/T73510/T73511) BAR PER ASM-
QQ-A-200/11 OR AMS-QQ-A-225/9 (AMS
4124) OR AMS-QQ-A-250/12 (AMS 4078)

PO Total: \$5,435.00

CL

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required **(YES)** NO

Change Nbr: 2

Change Date: 7/17/12